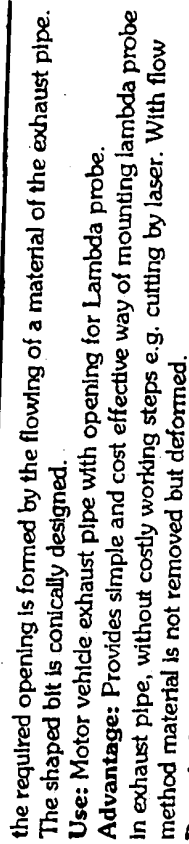


1999-562801/48

VOLKSWAGEN AG

Forming opening in exhaust pipe for reception of Lambda probe for internal combustion engine of motor vehicle

DE-19811569-A1



Description of Drawing(s): The figures 1-3 show the progress steps for the making of an opening for a probe or a sensor in the exhaust pipe of a motor vehicle.

Shaped bit 14

Conical section 16

18

Company Code: VOLS Publication Date: 1999.09.23

Drawing: 3/3
Pages: 4

Inventors: LOTZGESELLE G

Derwent Codes: S03-E15; X22-A03F

IPC: B23B 35/00; B21D 31/02; F01N 3/28

Derwent Classes: P52: P54: Q51: S03: Y22

Latest Priority: 1998.03.17 1998DE-1011569

Novelty: The opening for the lambda probe is carried out using a shaped bit (14), which is axially rotated and acted on with a predetermined force in such a manner, so that its tip (18) is pressed against the exhaust pipe wall (12). So that